BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images, please do not report the images to the Image Problem Mailbox.

GenCore version 4.5

OM protein - protein search, using sw model

Run on: August 13, 2002, 09:28:35 ; Search time 12.99 Seconds
(without alignments)
216.239 Million cell updates/sec

Title: US-09-824-787B-2
Perfect score: 597
Sequence: 1 MSGEPGQTSVAPPPEEVEPG.....ASNGETLEKITNSRPPCVIL 115

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	96.5	16.2	88	2	US-08-807-043-3	Sequence 3, Appli
2	96.5	16.2	88	2	US-09-127-289-3	Sequence 3, Appli
3	96.5	16.2	93	2	US-08-807-043-1	Sequence 1, Appli
4	96.5	16.2	93	2	US-09-127-289-1	Sequence 1, Appli
5	68	11.4	735	4	US-09-115-704-2	Sequence 2, Appli
6	67	11.2	696	1	US-08-765-081-5	Sequence 5, Appli
7	67	11.2	696	3	US-09-098-082-5	Sequence 5, Appli
8	67	11.2	696	5	PCT-US95-06994-5	Sequence 5, Appli
9	67	11.2	703	5	PCT-US95-06994-8	Sequence 8, Appli
10	67	11.2	718	5	PCT-US95-06994-6	Sequence 6, Appli
11	65.5	11.0	606	3	US-08-620-077B-3	Sequence 3, Appli
12	65.5	11.0	3052	2	US-08-557-122A-26	Sequence 26, Appl
13	65.5	11.0	3052	4	US-09-262-666-26	Sequence 26, Appl
14	65	10.9	244	3	US-08-469-318-136	Sequence 136, App
15	65	10.9	244	3	US-08-468-609A-136	Sequence 136, App
16	65	10.9	244	5	PCT-US95-01185-136	Sequence 136, App
17	64.5	10.8	344	2	US-07-857-224B-93	Sequence 93, Appl
18	64	10.7	505	1	US-08-123-161A-14	Sequence 14, Appl
19	64	10.7	505	1	US-08-483-278-14	Sequence 14, Appl
20	64	10.7	1110	1	US-08-118-441-29	Sequence 29, Appl
21	64	10.7	1110	3	US-08-338-579A-29	Sequence 29, Appl
22	64	10.7	1110	5	PCT-US94-09851-29	Sequence 29, Appl
23	63	10.6	485	4	US-08-378-313-25	Sequence 25, Appl
24	63	10.6	485	4	US-08-378-313-27	Sequence 27, Appl
25	63	10.6	485	4	US-08-378-313-32	Sequence 32, Appl
26	63	10.6	923	3	US-08-936-135-6	Sequence 6, Appli
27	62.5	10.5	310	3	US-08-796-792-4	Sequence 4, Appli
28	62.5	10.5	421	4	US-09-093-448-4	Sequence 4, Appli
29	62.5	10.5	433	4	US-09-046-158A-2	Sequence 2, Appli
30	62.5	10.5	897	1	US-07-960-389-2	Sequence 2, Appli
31	62	10.4	554	4	US-09-167-299-4	Sequence 4, Appli
32	61.5	10.3	352	4	US-09-413-814-24	Sequence 24, Appl
33	61	10.2	492	2	US-08-644-271-32	Sequence 32, Appl
34	61	10.2	552	5	PCT-US93-07832-23	Sequence 23, Appl
35	61	10.2	1171	1	US-08-445-135-1	Sequence 1, Appli
36	61	10.2	2647	2	US-08-583-562B-8	Sequence 8, Appli
37	61	10.2	2647	2	US-08-779-113-8	Sequence 8, Appli
38	60	10.1	124	4	US-08-983-607-47	Sequence 47, Appl
39	60	10.1	244	3	US-08-469-318-125	Sequence 125, App
40	60	10.1	244	3	US-08-469-318-153	Sequence 153, App
41	60	10.1	244	3	US-08-468-609A-125	Sequence 125, App
42	60	10.1	244	3	US-08-468-609A-153	Sequence 153, App
43	60	10.1	244	5	PCT-US95-01185-125	Sequence 125, App
44	60	10.1	244	5	PCT-US95-01185-153	Sequence 153, App
45	60	10.1	506	2	US-08-849-480A-5	Sequence 5, Appli

ALIGNMENTS

```
RESULT 1
US-08-807-043-3
; Sequence 3, Application US/08807043
; Patent No. 5856131
; GENERAL INFORMATION:
;   APPLICANT: Hillman, Jennifer L.
;   APPLICANT: Goli, Surya K.
;   TITLE OF INVENTION: NOVEL HUMAN SELENOPROTEIN
;   NUMBER OF SEQUENCES: 3
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Incyte Pharmaceuticals, Inc.
;     STREET: 3174 Porter Drive
;     CITY: Palo Alto
;     STATE: CA
;     COUNTRY: USA
;     ZIP: 94304
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Diskette
;     COMPUTER: IBM Compatible
;     OPERATING SYSTEM: DOS
;     SOFTWARE: FastSEQ for Windows Version 2.0
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/08/807,043
;     FILING DATE: Herewith
;     CLASSIFICATION: 530
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:
;     FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Billings, Lucy J.
;     REGISTRATION NUMBER: 36,749
;     REFERENCE/DOCKET NUMBER: PF-0202 US
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: 415-855-0555
;     TELEFAX: 415-845-4166
;     TELEX:
; INFORMATION FOR SEQ ID NO: 3:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 88 amino acids
;     TYPE: amino acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;   IMMEDIATE SOURCE:
;     LIBRARY: GenBank
;     CLONE: 993035
US-08-807-043-3


  Query Match            16.2%;  Score 96.5;  DB 2;  Length 88;
  Best Local Similarity  34.1%;  Pred. No. 0.00032;
```

```
  Matches   28;  Conservative   17;  Mismatches   26;  Indels   11;  Gaps    5;

Qy      23 VRIVVEYCEPCGFEATYLELASAVKEQYPG-IEI--ESRLGGTGAFEIEINGQLVFSKLE 79
           ||:|  ||   |::  ||:|   :: ::|| ::|  |     || ||: : |:|| ||
Db       5 VRVV--YCGAXGYKPKYLQLKEKLEHEFPGCLDICGEGTPQVTGFFEVTVAGKLVHSKKR 62

Qy      80 NGGF-----PYEKDLIEAIRRA 96
             |:     : | |: ||: |
Db      63 GDGYVDTESKFRK-LVTAIKAA 83


RESULT   2
US-09-127-289-3
; Sequence 3, Application US/09127289
; Patent No. 5998371
;  GENERAL INFORMATION:
;    APPLICANT:  Hiillman, Jennifer L.
;    APPLICANT:  Goli, Surya K.
;    TITLE OF INVENTION:  NOVEL HUMAN SELENOPROTEIN
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/127,289
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/807,043
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0202 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  88 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  993035
US-09-127-289-3


  Query Match             16.2%;  Score 96.5;  DB 2;  Length 88;
  Best Local Similarity   34.1%;  Pred. No. 0.00032;
  Matches   28;  Conservative   17;  Mismatches   26;  Indels   11;  Gaps    5;

Qy      23 VRIVVEYCEPCGFEATYLELASAVKEQYPG-IEI--ESRLGGTGAFEIEINGQLVFSKLE 79
           ||:|  ||   |::  ||:|   :: ::|| ::|  |     || ||: : |:|| ||
Db       5 VRVV--YCGAXGYKPKYLQLKEKLEHEFPGCLDICGEGTPQVTGFFEVTVAGKLVHSKKR 62

Qy      80 NGGF-----PYEKDLIEAIRRA 96
             |:     : | |: ||: |
Db      63 GDGYVDTESKFRK-LVTAIKAA 83


RESULT   3
US-08-807-043-1
; Sequence 1, Application US/08807043
; Patent No. 5856131
;  GENERAL INFORMATION:
;    APPLICANT:  Hiillman, Jennifer L.
;    APPLICANT:  Goli, Surya K.
;    TITLE OF INVENTION:  NOVEL HUMAN SELENOPROTEIN
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/807,043
;      FILING DATE:  Herewith
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0202 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  93 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  BLADNOT03
;      CLONE:  1599862
US-08-807-043-1


  Query Match             16.2%;  Score 96.5;  DB 2;  Length 93;
  Best Local Similarity   32.8%;  Pred. No. 0.00035;
  Matches   21;  Conservative   18;  Mismatches   20;  Indels    5;  Gaps    3;

Qy      23 VRIVVEYCEPCGFEATYLELASAVKEQYPG-IEI--ESRLGGTGAFEIEINGQLVFSKLE 79
           ||:|  ||   |::: ||:|   :::::|| ::|  |       | ||: : |:|: || :
Db      11 VRVV--YCGAXGYKSKYLQLKKKLEDEFPGRLDICGEGTSQAXGFFEVMVAGKLIHSKXK 68

Qy      80 NGGF 83
             |:
Db      69 GDGY 72


RESULT   4
US-09-127-289-1
; Sequence 1, Application US/09127289
; Patent No. 5998371
;  GENERAL INFORMATION:
;    APPLICANT:  Hiillman, Jennifer L.
;    APPLICANT:  Goli, Surya K.
;    TITLE OF INVENTION:  NOVEL HUMAN SELENOPROTEIN
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
```

```
;       STATE:  CA
;       COUNTRY:  USA
;       ZIP:  94304
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  DOS
;       SOFTWARE:  FastSEQ for Windows Version 2.0
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/127,289
;       FILING DATE:
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/807,043
;       FILING DATE:
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Billings, Lucy J.
;       REGISTRATION NUMBER:  36,749
;       REFERENCE/DOCKET NUMBER:  PF-0202 US
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  415-855-0555
;       TELEFAX:  415-845-4166
;       TELEX:
;   INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  93 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     IMMEDIATE SOURCE:
;       LIBRARY:  BLADNOT03
;       CLONE:  1599862
US-09-127-289-1


  Query Match             16.2%;  Score 96.5;  DB 2;  Length 93;
  Best Local Similarity   32.8%;  Pred. No. 0.00035;
  Matches   21;  Conservative   18;  Mismatches   20;  Indels    5;  Gaps    3;

Qy      23 VRIVVEYCEPCGFEATYLELASAVKEQYPG-IEI--ESRLGGTGAFEIEINGQLVFSKLE 79
           ||:|  ||   |::: ||:|   :::::|| ::|  |      | ||: : |:|: || :
Db      11 VRVV--YCGAXGYKSKYLQLKKKLEDEFPGRLDICGEGTSQAXGFFEVMVAGKLIHSKXK 68

Qy      80 NGGF 83
             |:
        69 GDGY 72


RESULT   5
US-09-115-704-2
; Sequence 2, Application US/09115704
; Patent No. 6211436
; GENERAL INFORMATION:
;  APPLICANT: Kossmann, Jens
;  APPLICANT: Frohberg, Claus
;  TITLE OF INVENTION: NUCLEIC ACID MOLECULES FROM PLANTS ENCODING ENZYMES
;  TITLE OF INVENTION: WHICH PARTICIPATE IN THE STARCH SYNTHESIS
;  FILE REFERENCE: GFB-6
;  CURRENT APPLICATION NUMBER: US/09/115,704
;  CURRENT FILING DATE: 1998-07-15
;  EARLIER APPLICATION NUMBER: PCT/EP97/00158
;  EARLIER FILING DATE: 1997-01-15
;  EARLIER APPLICATION NUMBER: DE 196 01 365.8
;  EARLIER FILING DATE: 1996-01-16
;  NUMBER OF SEQ ID NOS: 2
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 735
;   TYPE: PRT
;   ORGANISM: Zea mays
US-09-115-704-2


  Query Match             11.4%;  Score 68;  DB 4;  Length 735;
  Best Local Similarity   26.8%;  Pred. No. 16;
  Matches   22;  Conservative   14;  Mismatches   34;  Indels   12;  Gaps    3;

Qy      21 SGVRIVVEYCEPCGFEATYLELASAVKEQYPGIEIESRLGGTGAFEIEINGQLVFSKLEN 80
           | : ||    ||||      |   |  :|  : :  | ||       ::: : :  :: |
Db     617 SDMFIVPSMFEPCG-------LTQMVAMRYGSVPVVRRTGGLNDSVFDLDDETIPMEVRN 669

Qy      81 GGFPY----EKDLIEAIRRASN 98
             || :    |:|   |: || |
Db     670 -GFTFLKADEQDFGNALERAFN 690


RESULT   6
US-08-765-081-5
; Sequence 5, Application US/08765081
; Patent No. 5798260
;  GENERAL INFORMATION:
;    APPLICANT:  Tarr, P.I., Bilge, S.S., Besser, T.E., Vary Jr., J.C.
;    TITLE OF INVENTION:  Escherichia Coli 0157:H7 Epithelial Adhesin
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Christensen, O'Connor, Johnson and Kindness
;      STREET:  2800 Pacific First Center, 1420 Fifth Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98101-2347
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette-3.5 inch, 1.44Mb storage
;      COMPUTER:  IBM PC compatible/Pentium
;      OPERATING SYSTEM:  MS-Window 3.1
;      SOFTWARE:  Word for Windows-6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/765,081
;      FILING DATE:  March 26, 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/06994
;      FILING DATE:  June 7, 1995
;      APPLICATION NUMBER:  US 08/265,714
;      FILING DATE:  June 24, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Shelton, Dennis K.
;      REGISTRATION NUMBER:  26,997
;      REFERENCE/DOCKET NUMBER:  CHOR-1-10286
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  1-206-682-8100; 1-206-224-0718 (direct)
;      TELEFAX:  1-206-224-0779
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  696 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-765-081-5


  Query Match             11.2%;  Score 67;  DB 1;  Length 696;
  Best Local Similarity   29.0%;  Pred. No. 20;
  Matches   18;  Conservative   11;  Mismatches   23;  Indels   10;  Gaps    2;

Qy      39 YLELASAVKEQYPGIEIESRLGGTGAFEIEINGQLVFSKLENGGFPYEKDLIEAIRRASN 98
           | :|| |::    |:::||  | ||  || | |          |   ||: :|:  :
Db      59 YHDLAEALR-SVEGVDVESGTGKTGGLEISIRGMPA---------SYTLILIDGVRQGGS 108

Qy      99 GE 100
             :
Db     109 SD 110


RESULT   7
US-09-098-082-5
; Sequence 5, Application US/09098082
```

```
; Patent No. 6040421
;  GENERAL INFORMATION:
;    APPLICANT:  Tarr, P.I., Bilge, S.S., Besser, T.E., Vary Jr., J.C.
;    TITLE OF INVENTION:  Escherichia Coli 0157:H7 Epithelial Adhesin
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Christensen, O'Connor, Johnson and Kindness
;      STREET:  2800 Pacific First Center, 1420 Fifth Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98101-2347
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette-3.5 inch, 1.44Mb storage
;      COMPUTER:  IBM PC compatible/Pentium II
;      OPERATING SYSTEM:  MS-Windows 95
;      SOFTWARE:  Word for Windows-6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/098,082
;      FILING DATE:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/765,081
;      FILING DATE:  March 26, 1997
;      APPLICATION NUMBER:  PCT/US95/06994
;      FILING DATE:  June 7, 1995
;      APPLICATION NUMBER:  US 08/265,714
;      FILING DATE:  June 24, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sheiness, Diana K.
;      REGISTRATION NUMBER:  35,356
;      REFERENCE/DOCKET NUMBER:  CHOR-1-12402
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  1-206-682-8100; 1-206-224-0735 (direct)
;      TELEFAX:  1-206-224-0779
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  696 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-098-082-5


  Query Match             11.2%;  Score 67;  DB 3;  Length 696;
  Best Local Similarity   29.0%;  Pred. No. 20;
  Matches   18;  Conservative   11;  Mismatches   23;  Indels   10;  Gaps    2;

Qy      39 YLELASAVKEQYPGIEIESRLGGTGAFEIEINGQLVFSKLENGGFPYEKDLIEAIRRASN 98
           | :|| |::    |:::||  | ||  || | |             |   ||: :|:  :
Db      59 YHDLAEALR-SVEGVDVESGTGKTGGLEISIRGMPA---------SYTLILIDGVRQGGS 108

       99 GE 100
          :
Db    109 SD 110


RESULT   8
PCT-US95-06994-5
; Sequence 5, Application PC/TUS9506994
;  GENERAL INFORMATION:
;    APPLICANT:  Children's Hospital & Medical Center
;    APPLICANT:  University of Washington
;    APPLICANT:  Washington State University Research Foundation
;    APPLICANT:  TARR, PHILLIP I
;    APPLICANT:  BILGE, SIMA S
;    APPLICANT:  BESSER, THOMAS E
;    APPLICANT:  VARY JR, JAMES C
;    TITLE OF INVENTION:  ESCHERICHIA COLI O157:H7 EPITHELIAL ADHESIN
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CHRISTENSEN, O'CONNOR, JOHNSON AND KINDNESSPLLC
;      STREET:  SUITE 2800, 1420 FIFTH AVENUE
;      CITY:  SEATTLE
;      STATE:  WASHINGTON
;      COUNTRY:  USA
;      ZIP:  WA 98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/06994
;      FILING DATE:  07-JUN-95
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/265,714
;      FILING DATE:  24-JUN-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BRODERICK, THOMAS F
;      REGISTRATION NUMBER:  31,332
;      REFERENCE/DOCKET NUMBER:  CHOR-18591
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 682 8100
;      TELEFAX:  (206) 224 0779
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  696 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US95-06994-5


  Query Match             11.2%;  Score 67;  DB 5;  Length 696;
  Best Local Similarity   29.0%;  Pred. No. 20;
  Matches   18;  Conservative   11;  Mismatches   23;  Indels   10;  Gaps    2;

Qy      39 YLELASAVKEQYPGIEIESRLGGTGAFEIEINGQLVFSKLENGGFPYEKDLIEAIRRASN 98
           | :|| |::    |:::||  | ||  || | |             |   ||: :|:  :
Db      59 YHDLAEALR-SVEGVDVESGTGKTGGLEISIRGMPA---------SYTLILIDGVRQGGS 108

Qy      99 GE 100
           :
Db    109 SD 110


RESULT   9
PCT-US95-06994-8
; Sequence 8, Application PC/TUS9506994
;  GENERAL INFORMATION:
;    APPLICANT:  Children's Hospital & Medical Center
;    APPLICANT:  University of Washington
;    APPLICANT:  Washington State University Research Foundation
;    APPLICANT:  TARR, PHILLIP I
;    APPLICANT:  BILGE, SIMA S
;    APPLICANT:  BESSER, THOMAS E
;    APPLICANT:  VARY JR, JAMES C
;    TITLE OF INVENTION:  ESCHERICHIA COLI O157:H7 EPITHELIAL ADHESIN
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CHRISTENSEN, O'CONNOR, JOHNSON AND KINDNESSPLLC
;      STREET:  SUITE 2800, 1420 FIFTH AVENUE
;      CITY:  SEATTLE
;      STATE:  WASHINGTON
;      COUNTRY:  USA
;      ZIP:  WA 98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/06994
;      FILING DATE:  07-JUN-95
;      CLASSIFICATION:
```

```
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/265,714
;      FILING DATE:  24-JUN-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BRODERICK, THOMAS F
;      REGISTRATION NUMBER:  31,332
;      REFERENCE/DOCKET NUMBER:  CHOR-18591
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 682 8100
;      TELEFAX:  (206) 224 0779
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  703 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;      DESCRIPTION:  E. coli O157:H7 adhesin amino acid sequence,
;      DESCRIPTION:  wherein "Xaa" residues represent gaps
;      DESCRIPTION:  introduced to facilitate best alignment with
;      DESCRIPTION:  SEQ ID NO:9.
;    HYPOTHETICAL:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  Escherichia coli O157:H7
;      STRAIN:  86-24 NALR
PCT-US95-06994-8


  Query Match            11.2%;  Score 67;  DB 5;  Length 703;
  Best Local Similarity   29.0%;  Pred. No. 20;
  Matches   18;  Conservative   11;  Mismatches   23;  Indels   10;  Gaps    2;

Qy      39 YLELASAVKEQYPGIEIESRLGGTGAFEIEINGQLVFSKLENGGFPYEKDLIEAIRRASN 98
           | :|| |::    |:::||  | ||  || | |             |   ||: :|:  :
Db      64 YHDLAEALR-SVEGVDVESGTGKTGGLEISIRGMPA---------SYTLILIDGVRQGGS 113

Qy      99 GE 100
           :
Db     114 SD 115


RESULT  10
PCT-US95-06994-6
; Sequence 6, Application PC/TUS9506994
;  GENERAL INFORMATION:
;    APPLICANT:  Children's Hospital & Medical Center
;    APPLICANT:  University of Washington
;    APPLICANT:  Washington State University Research Foundation
;    APPLICANT:  TARR, PHILLIP I
;    APPLICANT:  BILGE, SIMA S
;    APPLICANT:  BESSER, THOMAS E
;    APPLICANT:  VARY JR, JAMES C
;    TITLE OF INVENTION:  ESCHERICHIA COLI O157:H7 EPITHELIAL ADHESIN
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CHRISTENSEN, O'CONNOR, JOHNSON AND KINDNESSPLLC
;      STREET:  SUITE 2800, 1420 FIFTH AVENUE
;      CITY:  SEATTLE
;      STATE:  WASHINGTON
;      COUNTRY:  USA
;      ZIP:  WA 98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/06994
;      FILING DATE:  07-JUN-95
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/265,714
;      FILING DATE:  24-JUN-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BRODERICK, THOMAS F
;      REGISTRATION NUMBER:  31,332
;      REFERENCE/DOCKET NUMBER:  CHOR-18591
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 682 8100
;      TELEFAX:  (206) 224 0779
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  718 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;      DESCRIPTION:  E. coli O157:H7 adhesin amino acid sequence,
;      DESCRIPTION:  wherein "Xaa" residues represent gaps
;      DESCRIPTION:  introduced to facilitate best alignment with
;      DESCRIPTION:  SEQ ID NO:7.
;    HYPOTHETICAL:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  Escherichia coli O157:H7
;      STRAIN:  86-24 NALR
PCT-US95-06994-6


  Query Match            11.2%;  Score 67;  DB 5;  Length 718;
  Best Local Similarity   29.0%;  Pred. No. 21;
  Matches   18;  Conservative   11;  Mismatches   23;  Indels   10;  Gaps    2;

Qy      39 YLELASAVKEQYPGIEIESRLGGTGAFEIEINGQLVFSKLENGGFPYEKDLIEAIRRASN 98
           | :|| |::    |:::||  | ||  || | |             |   ||: :|:  :
Db      69 YHDLAEALR-SVEGVDVESGTGKTGGLEISIRGMPA---------SYTLILIDGVRQGGS 118

Qy      99 GE 100
           :
Db     119 SD 120


RESULT  11
US-08-620-077B-3
; Sequence 3, Application US/08620077B
; Patent No. 6077995
;  GENERAL INFORMATION:
;    APPLICANT:  Upchurch, Robert G.
;    APPLICANT:  Callahan, Terrence M.
;    APPLICANT:  Ehrenshaft, Marilyn
;    TITLE OF INVENTION:  Fungal Gene Encoding Resistance to the
;    TITLE OF INVENTION:  Phytotoxin Cercosporin
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  USDA-ARS-OTT
;      STREET:  Room 407, BLDG. 005, BARC-W
;      CITY:  Beltsville
;      STATE:  Maryland
;      COUNTRY:  USA
;      ZIP:  20705
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/620,077B
;      FILING DATE:  03/21/96
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poulos, Gail E.
;      REGISTRATION NUMBER:  36,327
;      REFERENCE/DOCKET NUMBER:  0045.96
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  301-504-5302
;      TELEFAX:  301-504-5060
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  606 amino acids
```

```
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  YES
;    ANTI-SENSE:  NO
US-08-620-077B-3


  Query Match             11.0%;  Score 65.5;  DB 3;  Length 606;
  Best Local Similarity   29.3%;  Pred. No. 25;
  Matches   29;  Conservative   13;  Mismatches   32;  Indels   25;  Gaps    6;

Qy       7 QTSVAP----PPEEVEPGSGVRIVVEYC-----EPCGFEATYLELASAVKEQYPGIEI-E 56
           |::||     |  ::  |: : : |         | |       ||| :     | |: |
Db     450 QSNVAVQTVLPDAQIPAGTSLVLFVRLLGSAIPGPIGQSVLQTTLASRL-----GTEVAE 504

Qy      57 SRLGGTGAFEIEINGQLVFSKLEN---GGFPYEKDLIEA 92
           ||||| ||         |||:|    | |  :| ::|
Db     505 QAYGGTGATEIR-------SKLDNIFGAGTPEARDALDA 536


RESULT  12
US-08-557-122A-26
; Sequence 26, Application US/08557122A
; Patent No. 5879664
;  GENERAL INFORMATION:
;    APPLICANT:  Hjort, Carsten Mailand
;    TITLE OF INVENTION:  Fungal Protein Disulfide Isomerase
;    NUMBER OF SEQUENCES:  38
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  No. 5879664o No. 5879664disk of No. 5879664th America, Inc.
;      STREET:  405 Lexington Avenue, 64th Floor
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  United States of America
;      ZIP:  10174-6401
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/557,122A
;      FILING DATE:  11-DEC-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lambiris, Elias J.
;      REGISTRATION NUMBER:  33,728
;      REFERENCE/DOCKET NUMBER:  3980.204-US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-867-0123
;      TELEFAX:  212-878-9655
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3052 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-557-122A-26


  Query Match             11.0%;  Score 65.5;  DB 2;  Length 3052;
  Best Local Similarity   24.5%;  Pred. No. 2.5e+02;
  Matches   35;  Conservative   17;  Mismatches   44;  Indels   47;  Gaps    7;

Qy       6 GQTSVAPPPEEVE----------PGSGVRIVVEY-----------CEPCGFEATYLELA 43
           |  | |   | |:          | |  | |::|             |  | ::|  |:
Db    2643 GMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESGGMDSTANEVE 2702

Qy      44 SAVKEQYPGIEIESRLGGTGAFEIEINGQLV---FSK-LENGGFPYEKDLIEAIRRAS-- 97
           :     :| ::      | |   |: ||:     | | ||:||     : :||::  |
Db    2703 AVKVHSFPTLKFFP--AGPGRTVIDYNGERTLDGFKKFLESGGMDSTANEVEAVKVHSFP 2760

Qy      98 ----------------NGE-TLE 103
                            ||| |||
Db    2761 TLKFFPAGSGRNVIDYNGERTLE 2783


RESULT  13
US-09-262-666-26
; Sequence 26, Application US/09262666
; Patent No. 6346244
;  GENERAL INFORMATION:
;    APPLICANT:  Hjort, Carsten Mailand
;    TITLE OF INVENTION:  Fungal Protein Disulfide Isomerase
;    NUMBER OF SEQUENCES:  38
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  No. 6346244o No. 6346244disk of No. 6346244th America, Inc.
;      STREET:  405 Lexington Avenue, 64th Floor
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  United States of America
;      ZIP:  10174-6401
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/262,666
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/557,122
;      FILING DATE:  11-DEC-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lambiris, Elias J.
;      REGISTRATION NUMBER:  33,728
;      REFERENCE/DOCKET NUMBER:  3980.204-US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-867-0123
;      TELEFAX:  212-878-9655
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3052 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-09-262-666-26


  Query Match             11.0%;  Score 65.5;  DB 4;  Length 3052;
  Best Local Similarity   24.5%;  Pred. No. 2.5e+02;
  Matches   35;  Conservative   17;  Mismatches   44;  Indels   47;  Gaps    7;

Qy       6 GQTSVAPPPEEVE----------PGSGVRIVVEY-----------CEPCGFEATYLELA 43
           |  | |   | |:          | |  | |::|             |  | ::|  |:
Db    2643 GMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESGGMDSTANEVE 2702

Qy      44 SAVKEQYPGIEIESRLGGTGAFEIEINGQLV---FSK-LENGGFPYEKDLIEAIRRAS-- 97
           :     :| ::      | |   |: ||:     | | ||:||     : :||::  |
Db    2703 AVKVHSFPTLKFFP--AGPGRTVIDYNGERTLDGFKKFLESGGMDSTANEVEAVKVHSFP 2760

Qy      98 ----------------NGE-TLE 103
                            ||| |||
Db    2761 TLKFFPAGSGRNVIDYNGERTLE 2783


RESULT  14
US-08-469-318-136
; Sequence 136, Application US/08469318
; Patent No. 6022535
;  GENERAL INFORMATION:
```

```
;    APPLICANT:
;    TITLE OF INVENTION:  Multivariant IL-3 Hematopoiesis Fusion
;    TITLE OF INVENTION:  Protein
;    NUMBER OF SEQUENCES:  196
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/469,318
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/446,872
;      FILING DATE:
;  INFORMATION FOR SEQ ID NO:  136:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  244 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-469-318-136


  Query Match             10.9%;  Score 65;  DB 3;  Length 244;
  Best Local Similarity   18.3%;  Pred. No. 7.6;
  Matches   30;  Conservative   21;  Mismatches   55;  Indels   58;  Gaps    5;

Qy       5 PGQTSVAPPPEEVEPGSGVRIVVEYCEPCGFEAT----------------------YL 40
           |   |      : :|  ||:  ::   :||   ||                      ||
Db      44 PNLESFVRAVKNLENASGIEAILRNLQPCLPSATAAPSRHPIIIKAGDWQEFREKLTFYL 103

Qy      41 -ELASAVKEQYPGIEIESRL---GGTGAFEIEINGQLVFSKL----------------- 78
            |  | ::||    || |:   ||:|      | ::  ::
Db     104 VTLEQAQEQQY---VIEGRISPGGGSGGGSNMANCSIMIDEIIHHLKRPPAPLLDPNNLN 160

Qy      79 ---------ENGGFPYEKDLIEAIRRASNGETLEKITNSRPPCV 113
                    |   |  :  : |::   |   :| |  :  ||:
Db     161 DEDVSILMDRNLRLPNLESFVRAVKNLENASGIEAILRNLQPCL 204


RESULT  15
US-08-468-609A-136
    quence 136, Application US/08468609A
,   tent No. 6030812
;  GENERAL INFORMATION:
;    APPLICANT:  Abrams, Mark A.
;    APPLICANT:  Bauer, S. C.
;    APPLICANT:  Braford-Goldberg, Sarah R.
;    APPLICANT:  Caparon, Maire H.
;    APPLICANT:  Easton, Alan M.
;    APPLICANT:  Klein, Barbara K.
;    APPLICANT:  McKearn, John P.
;    APPLICANT:  Olins, Peter O.
;    APPLICANT:  Paik, Kumnan
;    APPLICANT:  Thomas, John W.
;    TITLE OF INVENTION:  Fusion Proteins Comprising Multiply Mutated Inteleukin-3 (IL-
;    NUMBER OF SEQUENCES:  197
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dennis A. Bennett, G.D. Searle & Co.,
;      ADDRESSEE:  Corporate Patent Dept.
;      STREET:  P. O. Box 5110
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;      ZIP:  60680
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/468,609A
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/192,325
;      FILING DATE:  14-FEB-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bennett, Dennis A.
;      REGISTRATION NUMBER:  34,547
;      REFERENCE/DOCKET NUMBER:  C-2790/3
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (314)737-6986
;      TELEFAX:  (314)737-6972
;  INFORMATION FOR SEQ ID NO:  136:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  244 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-468-609A-136


  Query Match             10.9%;  Score 65;  DB 3;  Length 244;
  Best Local Similarity   18.3%;  Pred. No. 7.6;
  Matches   30;  Conservative   21;  Mismatches   55;  Indels   58;  Gaps    5;

Qy       5 PGQTSVAPPPEEVEPGSGVRIVVEYCEPCGFEAT----------------------YL 40
           |   |      : :|  ||:  ::   :||   ||                      ||
Db      44 PNLESFVRAVKNLENASGIEAILRNLQPCLPSATAAPSRHPIIIKAGDWQEFREKLTFYL 103

Qy      41 -ELASAVKEQYPGIEIESRL---GGTGAFEIEINGQLVFSKL----------------- 78
            |  | ::||    || |:   ||:|      | ::  ::
Db     104 VTLEQAQEQQY---VIEGRISPGGGSGGGSNMANCSIMIDEIIHHLKRPPAPLLDPNNLN 160

Qy      79 ---------ENGGFPYEKDLIEAIRRASNGETLEKITNSRPPCV 113
                    |   |  :  : |::   |   :| |  :  ||:
Db     161 DEDVSILMDRNLRLPNLESFVRAVKNLENASGIEAILRNLQPCL 204


Search completed: August 13, 2002, 09:31:35
Job time: 180 sec
```